

#7

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/758,493

DATE: 08/28/2001
TIME: 10:02:12

Input Set : A:\00786-804001.TXT
Output Set: N:\CRF3\08282001\I758493.raw

ENTERED

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4 <110> APPLICANT: Arnaout, M. Amin
5     Li, Rui
6     Xiong, Jian-Ping
8 <120> TITLE OF INVENTION: HIGH AFFINITY INTEGRIN POLYPEPTIDES AND
9     USES THEREOF
11 <130> FILE REFERENCE: 00786-804001
13 <140> CURRENT APPLICATION NUMBER: US 09/758,493
14 <141> CURRENT FILING DATE: 2001-01-11
16 <150> PRIOR APPLICATION NUMBER: US 60/221,950
17 <151> PRIOR FILING DATE: 2000-07-31
19 <160> NUMBER OF SEQ ID NOS: 20
21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 191
25 <212> TYPE: PRT
26 <213> ORGANISM: Homo sapiens
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31 Ser Ile Ile Pro His Asp Phe Arg Arg Met Lys Glu Phe Val Ser Thr
32     20          25          30
33 Val Met Glu Gln Leu Lys Lys Ser Lys Thr Leu Phe Ser Leu Met Gln
34     35          40          45
35 Tyr Ser Glu Glu Phe Arg Ile His Phe Thr Phe Lys Glu Phe Gln Asn
36     50          55          60
37 Asn Pro Asn Pro Arg Ser Leu Val Lys Pro Ile Thr Gln Leu Leu Gly
38     65          70          75          80
39 Arg Thr His Thr Ala Thr Gly Ile Arg Lys Val Val Arg Glu Leu Phe
40     85          90          95
41 Asn Ile Thr Asn Gly Ala Arg Lys Asn Ala Phe Lys Ile Leu Val Val
42     100         105         110
43 Ile Thr Asp Gly Glu Lys Phe Gly Asp Pro Leu Gly Tyr Glu Asp Val
44     115         120         125
45 Ile Pro Glu Ala Asp Arg Glu Gly Val Ile Arg Tyr Val Ile Gly Val
46     130         135         140
47 Gly Asp Ala Phe Arg Ser Glu Lys Ser Arg Gln Glu Leu Asn Thr Ile
48     145         150         155         160
49 Ala Ser Lys Pro Pro Arg Asp His Val Phe Gln Val Asn Asn Phe Glu
50     165         170         175
51 Ala Leu Lys Thr Ile Gln Asn Gln Leu Arg Glu Lys Ile Phe Ala
52     180         185         190
54 <210> SEQ ID NO: 2
55 <211> LENGTH: 191
56 <212> TYPE: PRT
57 <213> ORGANISM: Homo sapiens
59 <400> SEQUENCE: 2
60 Cys Pro Arg Gln Glu Gln Asp Ile Val Phe Leu Ile Asp Gly Ser Gly

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61	1	5	10	15
62	Ser Ile Ser Ser Arg Asn Phe Ala Thr Met Met Asn Phe Val Arg Ala			
63	20	25	30	
64	Val Ile Ser Gln Phe Gln Arg Pro Ser Thr Gln Phe Ser Leu Met Gln			
65	35	40	45	
66	Phe Ser Asn Lys Phe Gln Thr His Phe Thr Phe Glu Glu Phe Arg Arg			
67	50	55	60	
68	Thr Ser Asn Pro Leu Ser Leu Leu Ala Ser Val His Gln Leu Gln Gly			
69	65	70	75	80
70	Phe Thr Tyr Thr Ala Thr Ala Ile Gln Asn Val Val His Arg Leu Phe			
71	85	90	95	
72	His Ala Ser Tyr Gly Ala Arg Arg Asp Ala Thr Lys Ile Leu Ile Val			
73	100	105	110	
74	Ile Thr Asp Gly Lys Lys Glu Gly Asp Ser Leu Asp Tyr Lys Asp Val			
75	115	120	125	
76	Ile Pro Met Ala Asp Ala Ala Gly Ile Ile Arg Tyr Ala Ile Gly Val			
77	130	135	140	
78	Gly Leu Ala Phe Gln Asn Arg Asn Ser Trp Lys Glu Leu Asn Asp Ile			
79	145	150	155	160
80	Ala Ser Lys Pro Ser Gln Glu His Ile Phe Lys Val Glu Asp Phe Asp			
81	165	170	175	
82	Ala Leu Lys Asp Ile Gln Asn Gln Leu Lys Glu Lys Ile Phe Ala			
83	180	185	190	
85	<210> SEQ ID NO: 3			
86	<211> LENGTH: 191			
87	<212> TYPE: PRT			
88	<213> ORGANISM: Homo sapiens			
90	<400> SEQUENCE: 3			
91	Cys Pro His Gln Glu Met Asp Ile Val Phe Leu Ile Asp Gly Ser Gly			
92	1	5	10	15
93	Ser Ile Asp Gln Asn Asp Phe Asn Gln Met Lys Gly Phe Val Gln Ala			
94	20	25	30	
95	Val Met Gly Gln Phe Glu Gly Thr Asp Thr Leu Phe Ala Leu Met Gln			
96	35	40	45	
97	Tyr Ser Asn Leu Leu Lys Ile His Phe Thr Phe Thr Gln Phe Arg Thr			
98	50	55	60	
99	Ser Pro Ser Gln Gln Ser Leu Val Asp Pro Ile Val Gln Leu Lys Gly			
100	65	70	75	80
101	Leu Thr Phe Thr Ala Thr Gly Ile Leu Thr Val Val Thr Gln Leu Phe			
102	85	90	95	
103	His His Lys Asn Gly Ala Arg Lys Ser Ala Lys Lys Ile Leu Ile Val			
104	100	105	110	
105	Ile Thr Asp Gly Gln Lys Tyr Lys Asp Pro Leu Glu Tyr Ser Asp Val			
106	115	120	125	
107	Ile Pro Gln Ala Glu Lys Ala Gly Ile Ile Arg Tyr Ala Ile Gly Val			
108	130	135	140	
109	Gly His Ala Phe Gln Gly Pro Thr Ala Arg Gln Glu Leu Asn Thr Ile			
110	145	150	155	160
111	Ser Ser Ala Pro Pro Gln Asp His Val Phe Lys Val Asp Asn Phe Ala			

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112           165           170           175
113 Ala Leu Gly Ser Ile Gln Lys Gln Leu Gln Glu Lys Ile Tyr Ala
114           180           185           190
116 <210> SEQ ID NO: 4
117 <211> LENGTH: 184
118 <212> TYPE: PRT
119 <213> ORGANISM: HOMO sapiens
121 <400> SEQUENCE: 4
122 Cys Ile Lys Gly Asn Val Asp Leu Val Phe Leu Phe Asp Gly Ser Met
123   1           5           10           15
124 Ser Leu Gln Pro Asp Glu Phe Gln Lys Ile Leu Asp Phe Met Lys Asp
125   20          25          30
126 Val Met Lys Lys Leu Ser Asn Thr Ser Tyr Gln Phe Ala Ala Val Gln
127   35          40          45
128 Phe Ser Thr Ser Tyr Lys Thr Glu Phe Asp Phe Ser Asp Tyr Val Lys
129   50          55          60
130 Trp Lys Asp Pro Asp Ala Leu Leu Lys His Val Lys His Met Leu Leu
131   65          70          75          80
132 Leu Thr Asn Thr Phe Gly Ala Ile Asn Tyr Val Ala Thr Glu Val Phe
133   85          90          95
134 Arg Glu Glu Leu Gly Ala Arg Pro Asp Ala Thr Lys Val Leu Ile Ile
135   100         105         110
136 Ile Thr Asp Gly Glu Ala Thr Asp Ser Gly Asn Ile Asp Ala Ala Lys
137   115         120         125
138 Asp Ile Ile Arg Tyr Ile Ile Gly Ile Gly Lys His Phe Gln Thr Lys
139   130         135         140
140 Glu Ser Gln Glu Thr Leu His Lys Phe Ala Ser Lys Pro Ala Ser Glu
141   145         150         155         160
142 Phe Val Lys Ile Leu Asp Thr Phe Glu Lys Leu Lys Asp Leu Phe Thr
143   165         170         175
144 Glu Leu Gln Lys Lys Ile Tyr Val
145   180
147 <210> SEQ ID NO: 5
148 <211> LENGTH: 195
149 <212> TYPE: PRT
150 <213> ORGANISM: Homo sapiens
152 <400> SEQUENCE: 5
153 Cys Ser Thr Gln Leu Asp Ile Val Ile Val Leu Asp Gly Ser Asn Ser
154   1           5           10           15
155 Ile Tyr Pro Trp Asp Ser Val Thr Ala Phe Leu Asn Asp Leu Leu Lys
156   20          25          30
157 Arg Met Asp Ile Gly Pro Lys Gln Thr Gln Val Gly Ile Val Gln Tyr
158   35          40          45
159 Gly Glu Asn Val Thr His Glu Phe Asn Leu Asn Lys Tyr Ser Ser Thr
160   50          55          60
161 Glu Glu Val Leu Val Ala Ala Lys Lys Ile Val Gln Arg Gly Gly Arg
162   65          70          75          80
163 Gln Thr Met Thr Ala Leu Gly Thr Asp Thr Ala Arg Lys Glu Ala Phe
164   85          90          95

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165 Thr Glu Ala Arg Gly Ala Arg Arg Gly Val Lys Lys Val Met Val Ile
166 100 105 110
167 Val Thr Asp Gly Glu Ser His Asp Asn His Arg Leu Lys Lys Val Ile
168 115 120 125
169 Gln Asp Cys Glu Asp Glu Asn Ile Gln Arg Phe Ser Ile Ala Ile Leu
170 130 135 140
171 Gly Ser Tyr Asn Arg Gly Asn Leu Ser Thr Glu Lys Phe Val Glu Glu
172 145 150 155 160
173 Ile Lys Ser Ile Ala Ser Glu Pro Thr Glu Lys His Phe Phe Asn Val
174 165 170 175
175 Ser Asp Glu Leu Ala Leu Val Thr Ile Val Lys Thr Leu Gly Glu Arg
176 180 185 190
177 Ile Phe Ala
178 195
180 <210> SEQ ID NO: 6
181 <211> LENGTH: 195
182 <212> TYPE: PRT
183 <213> ORGANISM: Homo sapiens
185 <400> SEQUENCE: 6
186 Cys Pro Ser Leu Ile Asp Val Val Val Cys Asp Glu Ser Asn Ser
187 1 5 10 15
188 Ile Tyr Pro Trp Asp Ala Val Lys Asn Phe Leu Glu Lys Phe Val Gln
189 20 25 30
190 Gly Leu Asp Ile Gly Pro Thr Lys Thr Gln Val Gly Leu Ile Gln Tyr
191 35 40 45
192 Ala Asn Asn Pro Arg Val Val Phe Asn Leu Asn Thr Tyr Lys Thr Lys
193 50 55 60
194 Glu Glu Met Ile Val Ala Thr Ser Gln Thr Ser Gln Tyr Gly Gly Asp
195 65 70 75 80
196 Leu Thr Asn Thr Phe Gly Ala Ile Gln Tyr Ala Arg Lys Tyr Ala Tyr
197 85 90 95
198 Ser Ala Ala Ser Gly Gly Arg Arg Ser Ala Thr Lys Val Met Val Val
199 100 105 110
200 Val Thr Asp Gly Glu Ser His Asp Gly Ser Met Leu Lys Ala Val Ile
201 115 120 125
202 Asp Gln Cys Asn His Asp Asn Ile Leu Arg Phe Gly Ile Ala Val Leu
203 130 135 140
204 Gly Tyr Leu Asn Arg Asn Ala Leu Asp Thr Lys Asn Leu Ile Lys Glu
205 145 150 155 160
206 Ile Lys Ala Ile Ala Ser Ile Pro Thr Glu Arg Tyr Phe Phe Asn Val
207 165 170 175
208 Ser Asp Glu Ala Ala Leu Leu Glu Lys Ala Gly Thr Leu Gly Glu Gln
209 180 185 190
210 Ile Phe Ser
211 195
213 <210> SEQ ID NO: 7
214 <211> LENGTH: 195
215 <212> TYPE: PRT
216 <213> ORGANISM: Homo sapiens

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218 <400> SEQUENCE: 7
 219 Cys Pro Thr Tyr Met Asp Val Val Ile Val Leu Asp Gly Ser Asn Ser
 220 1 5 10 15
 221 Ile Tyr Pro Trp Ser Glu Val Gln Thr Phe Leu Arg Arg Leu Val Gly
 222 20 25 30
 223 Lys Leu Phe Ile Asp Pro Glu Gln Ile Gln Val Gly Leu Val Gln Tyr
 224 35 40 45
 225 Gly Glu Ser Pro Val His Glu Trp Ser Leu Gly Asp Phe Arg Thr Lys
 226 50 55 60
 227 Glu Glu Val Val Arg Ala Ala Lys Asn Leu Ser Arg Arg Glu Gly Arg
 228 65 70 75 80
 229 Glu Thr Lys Thr Ala Gln Ala Ile Met Val Ala Cys Thr Glu Gly Phe
 230 85 90 95
 231 Ser Gln Ser His Gly Gly Arg Pro Glu Ala Ala Arg Leu Leu Val Val
 232 100 105 110
 233 Val Thr Asp Gly Glu Ser His Asp Gly Glu Glu Leu Pro Ala Ala Leu
 234 115 120 125
 235 Lys Ala Cys Glu Ala Gly Arg Val Thr Arg Tyr Gly Ile Ala Val Leu
 236 130 135 140
 237 Gly His Tyr Leu Arg Arg Gln Arg Asp Pro Ser Ser Phe Leu Arg Glu
 238 145 150 155 160
 239 Ile Arg Thr Ile Ala Ser Asp Pro Asp Glu Arg Phe Phe Phe Asn Val
 240 165 170 175
 241 Thr Asp Glu Ala Ala Leu Thr Asp Ile Val Asp Ala Leu Gly Asp Arg
 242 180 185 190
 243 Ile Phe Gly
 244 195
 246 <210> SEQ ID NO: 8
 247 <211> LENGTH: 193
 248 <212> TYPE: PRT
 249 <213> ORGANISM: Homo sapiens
 251 <400> SEQUENCE: 8
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 253 1 5 10 15
 254 Ile Tyr Pro Trp Val Glu Val Gln His Phe Leu Ile Asn Ile Leu Lys
 255 20 25 30
 256 Lys Phe Tyr Ile Gly Pro Gly Gln Ile Gln Val Gly Val Val Gln Tyr
 257 35 40 45
 258 Gly Glu Asp Val Val His Glu Phe His Leu Asn Asp Tyr Arg Ser Val
 259 50 55 60
 260 Lys Asp Val Val Glu Ala Ala Ser His Ile Glu Gln Arg Gly Gly Thr
 261 65 70 75 80
 262 Glu Thr Arg Thr Ala Phe Gly Ile Glu Phe Ala Arg Ser Glu Ala Phe
 263 85 90 95
 264 Gln Lys Gly Gly Arg Lys Gly Ala Lys Lys Val Met Ile Val Ile Thr
 265 100 105 110
 266 Asp Gly Glu Ser His Asp Ser Pro Asp Leu Glu Lys Val Ile Gln Gln
 267 115 120 125
 268 Ser Glu Arg Asp Asn Val Thr Arg Tyr Ala Val Ala Val Leu Gly Tyr

VERIFICATION SUMMARY
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